USER MANUAL

HTA-810/820/830/840 Time & Attendance Recorder

Benefits:

- First time setup in 3 minutes
- Daylight Saving Control
- TCP/IP Communication for HTA-830/840
- Perfect for wall-mount or desktop use
- Auto/Manual Clock in and Clock out for HTA-820/830/840
- Excellent for Payroll Management
- PoE(Power over Ethernet) for HTA-840

FCC and CE Radiation Norm

FCC

This device has been tested and found to comply with limits for Class B digital device pursuant to Part 15 of Federal Communications Commission (FCC) rules.

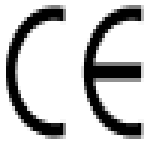
CE

This device has been tested and found to comply with the limits of the European Council Directive on the approximation of the law of the member states relating to electromagnetic compatibility (89/336/EEC) according to EN 55022 Class B.

FCC and CE Compliance Statement

These limits are designed to provide reasonable protection against frequency interference in residential installation. This device generates, uses and can radiate radio frequency energy, and if not installed or used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in television reception, which can be determined by turning the device off and on. The user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and the receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.



CAUTION!

The Federal Communications Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the device.

NOTICE

This manual is designed to provide information about HTA Series Time & Attendance Recorder. Every effort has been made to make this manual as accurate as possible, but no warranty or fitness is implied.

Information contained in this manual is subject to change without prior notice in order to improve reliability, design or function. The manufacturer will not be held responsible for technical or editorial omissions made herein, nor for the incidental or consequential damages resulting from its furnishing, performance, functionality or use. Subsequent changes to this manual will be incorporated into the next edition. We welcome any suggestions regarding this manual or our products.

TRADEMARKS

All product names and trademarks are property of their respective owners.

Table of Contents

Package Contents 5
Product Overview 6
Features 7
HTA-810/820/830/840 Comparison Table 8
Specifications 9
Physical Dimensions 10
Safety Precautions 11
Pictorial Introduction 12
Wiring Connections 15
RS-485 Wiring Connection 15
RS-232 Wiring Connection 15
TCP/IP RJ-45 Connection for HTA-830 16
TCP/IP RJ-45 Connection for HTA-840 16
Alarm Output Connection 17
Communication Connection 18
Power Supply Connection 20
Installation 21
Troubleshooting 22
Appendix 1: Error Message Description 23

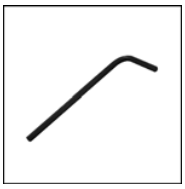
Package Contents

When you unpack your new HTA810/820/830/840 Time Attendance Recorder, please make sure that all of the following items are included and are not damaged:

For all models:

Time recorder x 1

Base x 1



Hex key wrench x 1

Software CD x 1

EM Proximity Card x 1

or

Magnetic Cards x 3

or

Barcode Cards x 3

Screws x 4

Quick Start Guide x 1

Additional items for HTA-810/820

DC Jack Converter x 1 If adaptor is not included.	Adaptor x 1 (Optional)	Cable x 1

Additional items for HTA-830

DC Jack Converter x 1 If adaptor is not included.	Adaptor x 1 (Optional)

If any of the items are missing or damaged, please contact your dealer immediately.

Note: HTA-840 uses PoE (Power over Ethernet) technology for its power supply, hence, DC Jack Converter and Adaptor is not included within the package.

Product Overview

Thank you for purchasing this high quality “DIY” Time Attendance Recorder.

HTA-810, 820, 830 and 840 are designed mainly for time and attendance recording with easy installation, auto/manual clock in and clock out and daylight saving control, 32 sets alarm outputs. They come in various types to meet your every needs.

Type	Model
Barcode Type	HTA-810B/HTA-820B/HTA-830B/HTA-840B
Magnetic Type	HTA-810M/HTA-820M/HTA-830M/HTA-840M
Proximity Type	HTA-810P/HTA-820P/HTA-830P/HTA-840P
HID Type	HTA-810HID/HTA-820HID/HTA-830HID/HTA-840HID
Mifare Type	HTA-810MIF/HTA-820MIF/HTA-830MIF/HTA-840MIF

To better serve you, Hundure Technology also offers additional accessories for HTA-810/820/830/840 Time Attendance Recorder, such as EPC-402, RS-232 and RS-485 converter, e-P132 TCP/IP Converter and Uninterrupted Power Supply PSU-320.

We hope you’ll enjoy using your “DIY” Time Attendance Recorder, yet another first-rate Access Control/Time Attendance Solutions from Hundure Technology.

Features

- First time setup in 3 minutes, a perfect “DIY” Time Attendance Recorder for either wall-mount or desktop use.
- Daylight saving control
- Auto or manual clock in and clock out for HTA-820/830/840.
- 10 baseT Ethernet (TCP/IP) for HTA-830.
- 10 baseT Ethernet & PoE (Power over Ethernet) for HTA-840.
- Dynamic control of memory up to 8,200 transaction data, max. 60 days data storage in case of power outages.
- Valid card identification, maximum storage up to 8,000 records for HTA-820/830/840.
- Standalone/Network communication via RS232/RS485, dial-up modem and TCP/IP (External Converter required) for HTA-810/820. HTA-830/840 uses TCP/IP communication interface.
- Visual LED for distant display of time, card number (last 4 digits) and for communication mode, swiped card indication.
- Preset 16 time schedule for HTA-820/830/840.
- 32 alarm outputs.
- Auto scheduling for data collection, time calibration, download of valid card number.
- Memory buffer full warning – when memory capacity reaches 90%, it will send an alarm to remind the system administrator for data collection. System halts card data storage as memory capacity reaches 100%.
- Invalid card and re-swiped card off-the-record to save memory capacity.
- Built in RTC (Real Time Clock) maintaining accurate time regardless of power outages.
- Editable attendance management daily or monthly report.
- Watchdog function to ensure system free from halting.

HTA-810/820/830/840 Comparison Table

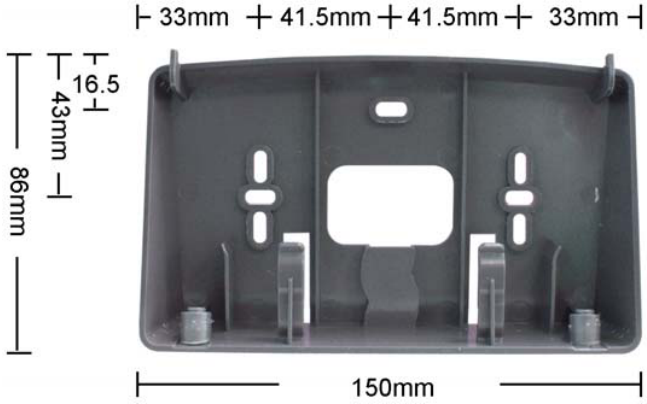
Description	HTA-810	HTA-820	HTA-830	HTA-840
Transaction Data	8200	8200	8200	8200
Valid Card Identification, Max. Records	N/A	8000	8000	8000
Keypad	N/A	4 keys	4 keys	4 keys
Keypad Backlight	N/A	YES	YES	YES
Re-swiped card auto examine	0 ~ 255 sec.	0 ~ 255 sec.	0 ~ 255 sec.	0 ~ 255 sec.
Clock in and Clock out	N/A	YES	YES	YES
Daylight Saving Control	YES	YES	YES	YES
Preset 16 time schedules	N/A	YES	YES	YES
Alarm Outputs	32 sets	32 sets	32 sets	32 sets
Comm. Interface	RS-232/485	RS-232/485	TCP/IP	TCP/IP (PoE)
Operating Voltage	DC 12V / 500mA	DC 12V / 500mA	DC 12V / 500mA	DC 48V (57V max) / 24W (PoE)

Specifications

Description	HTA-810	HTA-820	HTA-830	HTA-840
Processor	8-bit			
Memory	256K			
Output Ports	1 Relay (Chime Bell/Electronic Lock)			
Cardholders/Events	Max. up to 8200 transaction data			
LED Indicator	Visual LED for display of time, Swiped card indication (last 4 digits), COMM. X 1			
Keypad	None	4 keys for auto shift schedule and manual clock in and clock out		
RTC (Real Time Clock)	YES			
Beep Tone	Buzzer			
Device ID Setting	Software			
Reader Ports	ABA-Track 2/Wiegand26 x 1			
Operating Voltage	DC 12V 500mA			DC 48V (57V Max) /500 mA
Power Consumption	3W(max)		5W	24W (max)
Baud Rate	1200/2400/4800/9600/19200 bps-N-8-1 (default 9600)		10Mbps	
Comm. Interface	RS-232/RS-485		TCP/IP	TCP/IP (PoE, IEEE80 2.3af compliant)
Barcode Type	Resolution: 0.15mm; Scanning Speed: 100~1000mm/sec. Code 39			
Magnetic Type	ISO Standard Track 1 or 2 or 3; Scanning Speed: 3~40 ips			
Proximity Type	ABA-Track 2/26-bit Wiegand			
Mifare Type	ABA-Track 2/26-bit Wiegand			
HID	26-bit Wiegand			
Dimensions	160mm(L) x 100mm(W) x 40mm(H)-excluding base			
Weight	300g		400g	
Operating Temp.	-10°C~55°C/14°F~131°F			
Relative Humidity	20%~80% (Non Condensing)			

Physical Dimensions

Front View & Side View



Back Base

Safety Precautions

To ensure the maximum reliability of the HTA-810/820 “DIY” Time Attendance Recorder, please follow the guidelines listed below:

- Do not expose this recorder to extreme temperature or humid environment.
- Do not disassemble this recorder for it will VOID your warranty.
- Do not place this recorder in an area with an excessive amount of dirt.
- Use a soft, damp cloth to clean the recorder. Never spray cleaners directly on the recorder.
- Do not expose this recorder directly to sunlight.
- For desktop use, place your recorder on a flat and stable surface.
- Use only the power adaptor that comes with your recorder. Adaptors of other electronic devices may look similar, but they may affect your recorder’s performance or damage it.
- Do not fold, twist or pull the power cord.
- Electrical equipment may be hazardous if misused. Do not attempt to alter any interior components. Doing so may be extremely dangerous and may result in fire or electric shock.
- Do not move or bump the recorder while it is operating.
- Keep all cables out of the aisle and off the desktop where they can be hooked or pulled.

Pictorial Introduction

◆ **Front View**

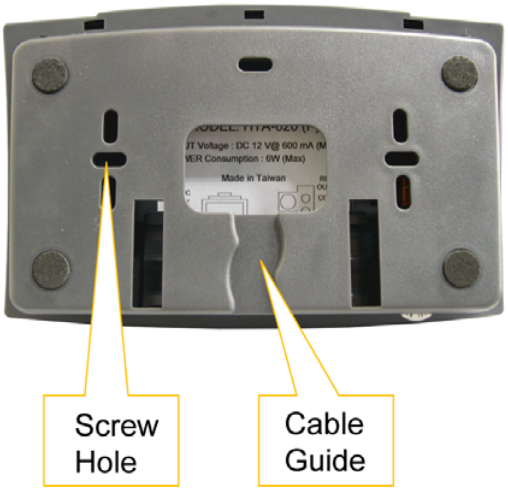
HTA-810

HTA-820/830/840

1	**Time/ Message Display**	Visual LED to show time, last 4 digits of the card number or error message.
2	**Shift Key(for manual clock in/clock out)**	A, B, C, D (4 keys for HTA-820/830/840)
3	**Communication LED**	Red LED blinks upon receipt of data from PC; Green LED blinks upon trasmission of data to PC.
4	**Swipe Card Indication LED**	Green LED blinks upon swipe of valid card; Red LED blinks when invalid card is swiped.
5	**Card Sensor Area** (1)	Card sensor

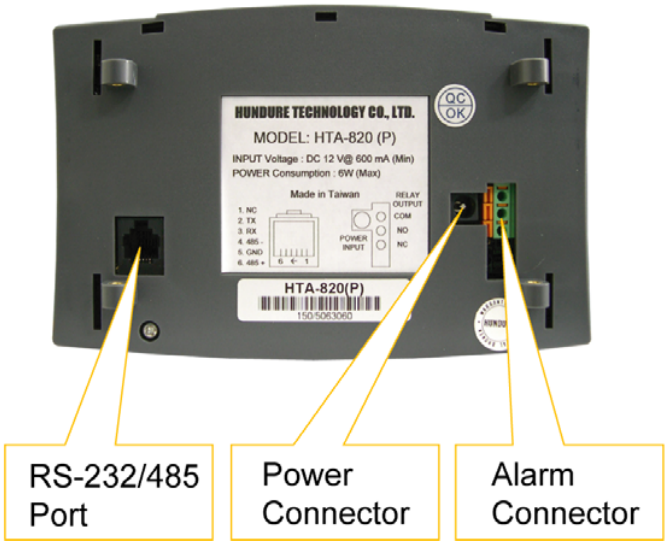
Note 1: This area is card-swiping slot for magnetic card HTA-810M/HTA-820M/HTA-830M/HTA-840M) or barcode models(HTA-810B/HTA820B/HTA-830B/HTA-840B).

◆ **Backview**



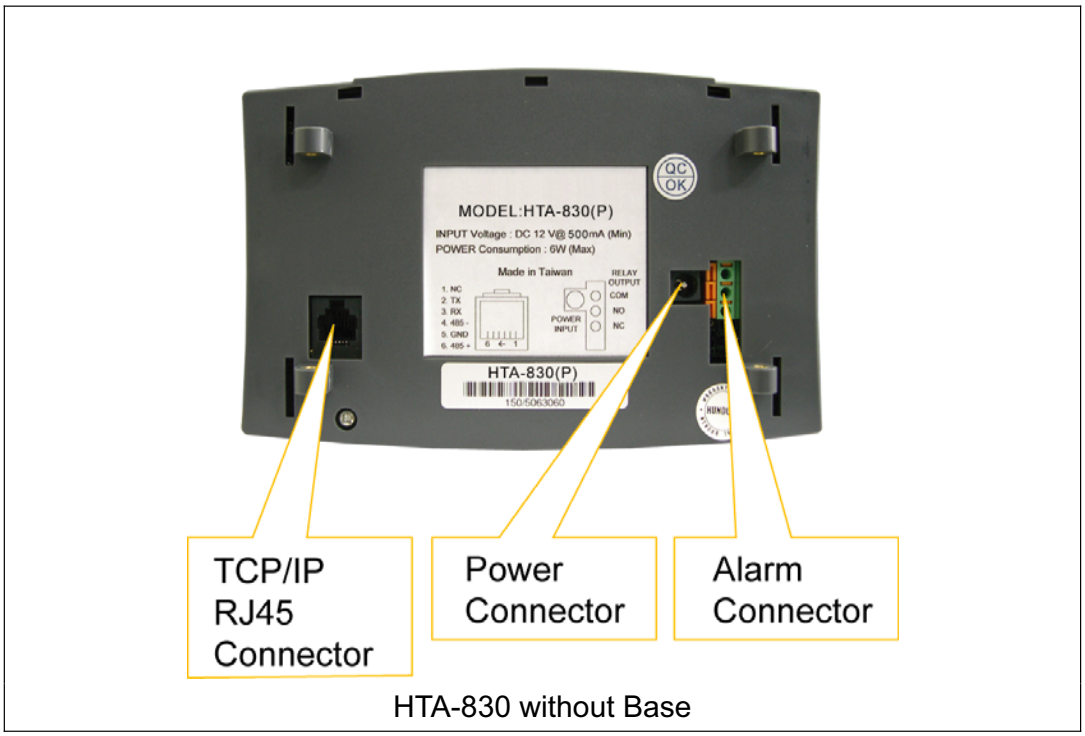
With Base

HTA-810/820



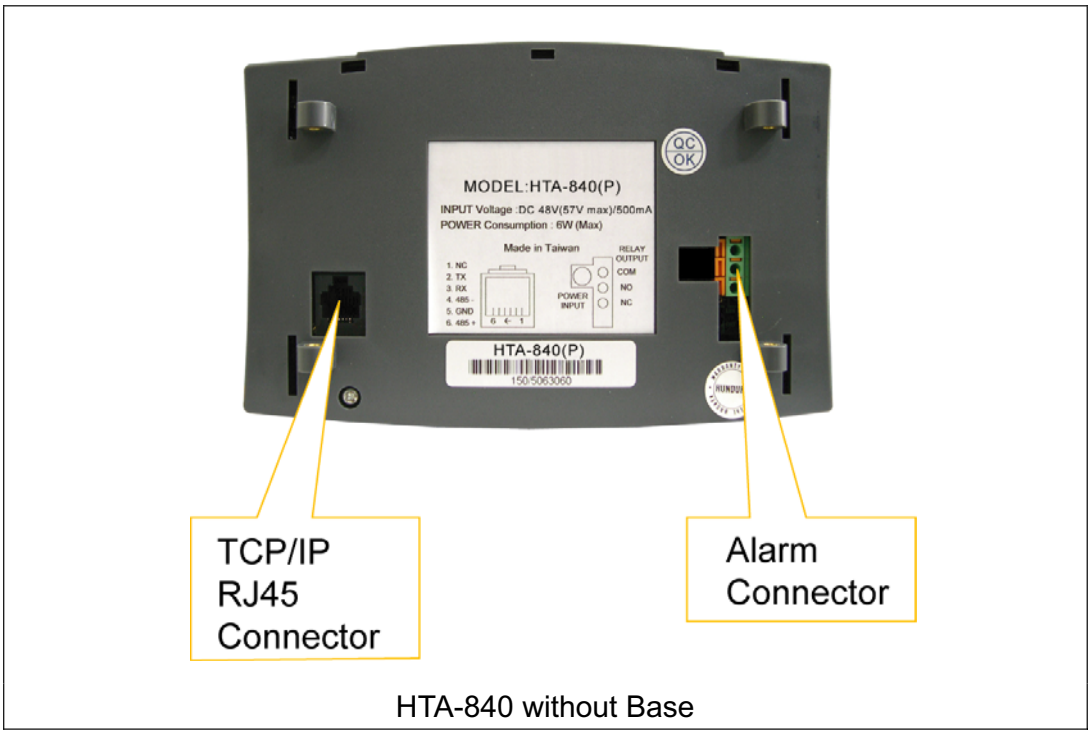
HTA-810/820 without Base

HTA-830



HTA-830 without Base

HTA-840



HTA-840 without Base

Wiring Connections

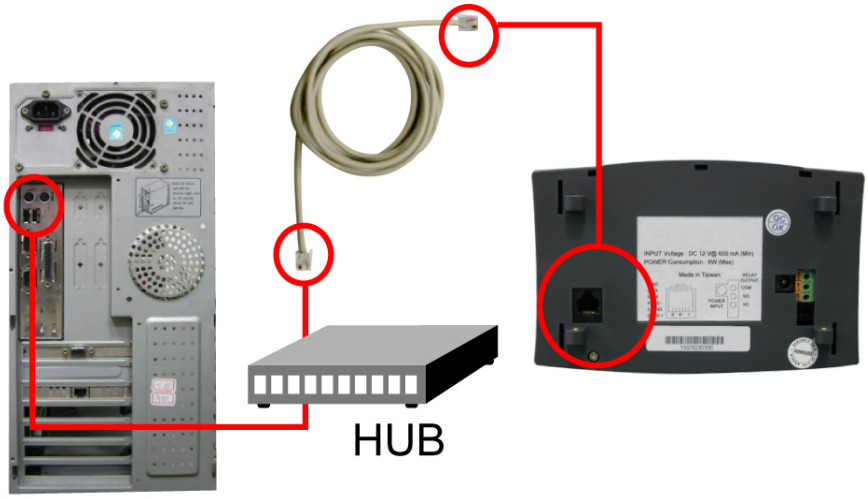
RS-485 Wiring Connection

Note: Assign different IDs for each HTA-810/820/830/840 recorder when there are more than one recorder in the network.

- Default ID is “1”
- Set your ID with our software.

RS-232 Wiring Connection

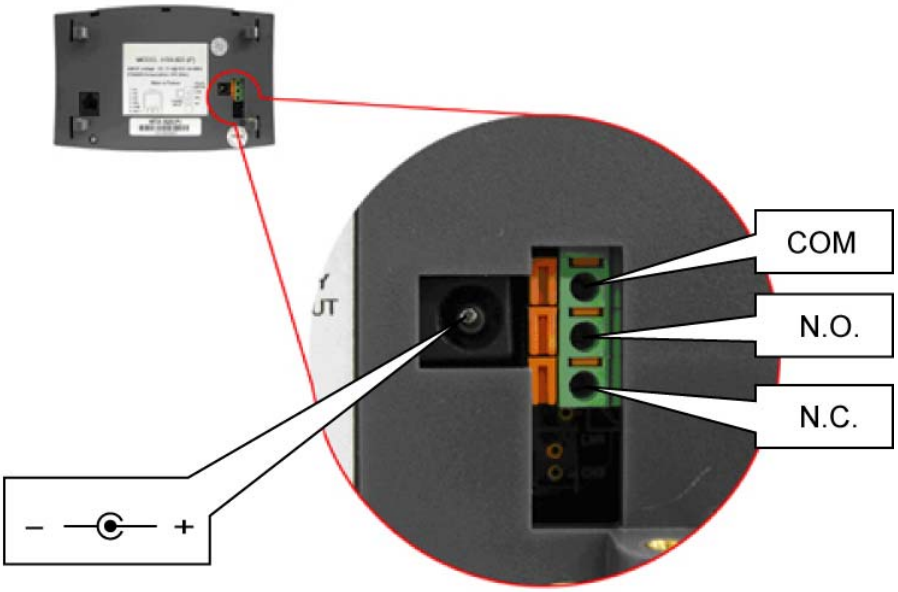
TCP/IP RJ-45 Connection for HTA-830



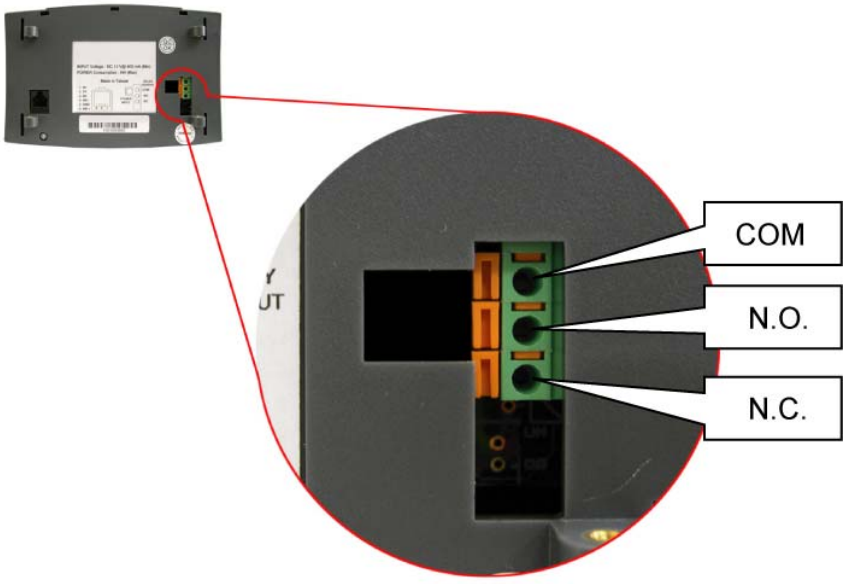
TCP/IP RJ-45 Connection for HTA-840

Alarm Output Connection

HTA-810/820/830

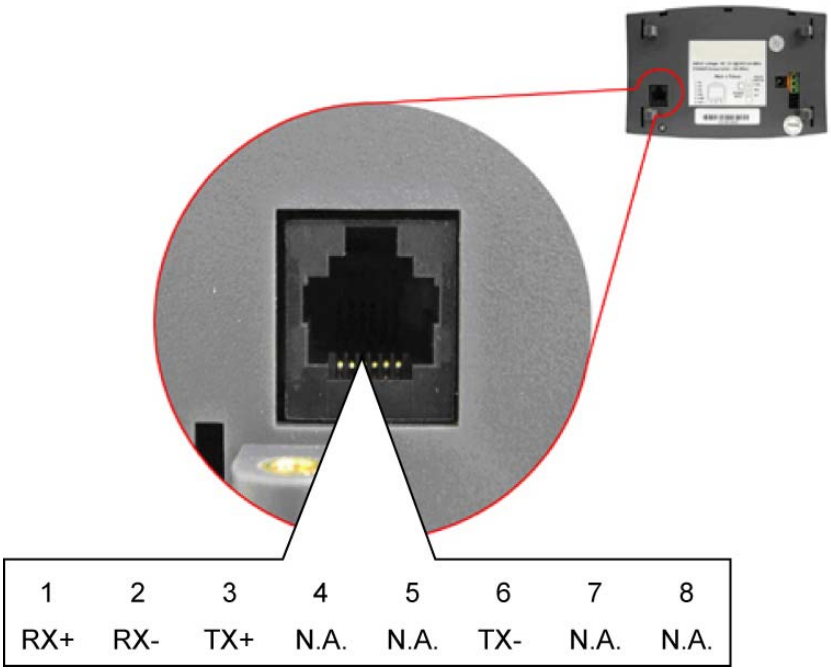


HTA-840

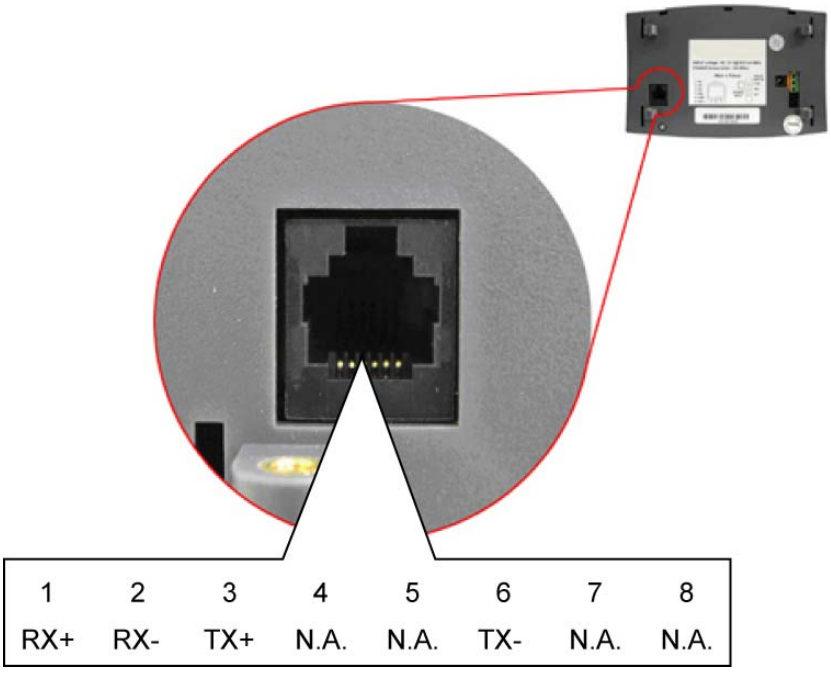


Communication Connection

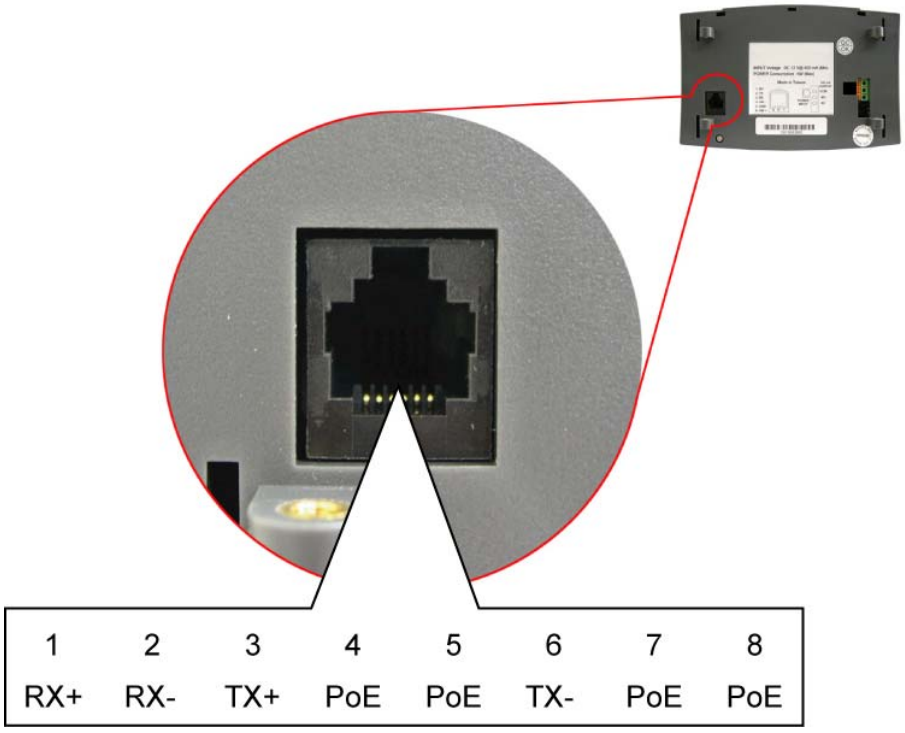
RS232/RS485 Communication Port for HTA-810/820



Communication Port for HTA-830



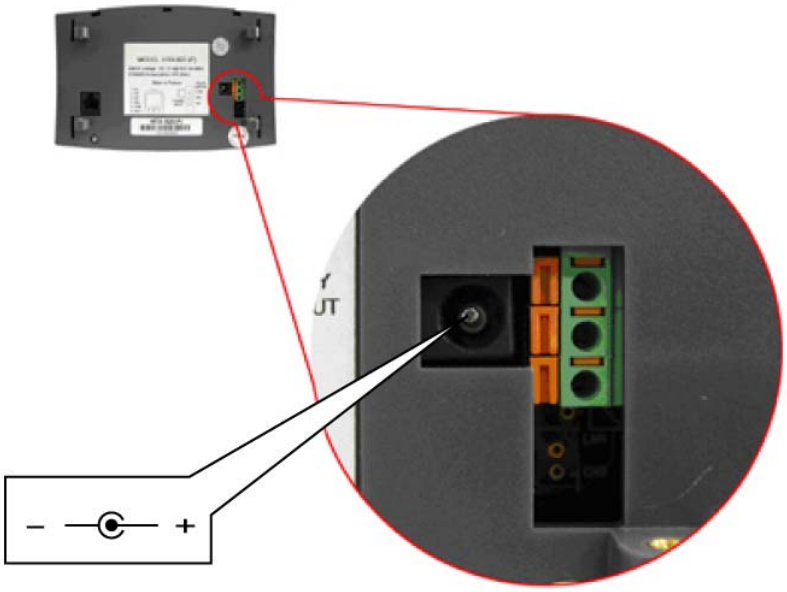
Communication Port for HTA-840



Note: POE stands for transmitting DC power.

Power Supply Connection

Note: Power Supply Connection is for HTA-810/820/830. This is not applicable for HTA-840 as it uses PoE (Power over Ethernet) for its power supply.



Installation

Step 1~2
Take the base out the package. Mount it onto the wall using the screws (not required for desktop use)

Step 3~4

Align the extrusion part of the base to HTA-810/820 recorder's slots on the edges for base installation

Step 5~6

Fasten the 2 screws on the bottom to complete the installation.

Troubleshooting

Q: No LED display after powered on. (HTA-810/820/830)

A: Please make sure DC12V power adaptor is properly plugged with correct polarity.

Q: Not able to establish communications.

A: For HTA-810/820, please make sure the device ID is correctly set. For HTA-830/840, make sure the IP port is correctly set.

Q: I swiped the card, but the device has no response.

A: 1. Please check if the card format matches model purchased.
2. Please make sure card registry process is complete.
3. Please swipe the card again at normal speed.
4. Please make sure the right side of card swiped.

Q: An Err or Bad code appears after swipe of cards.

A: Please refer to appendix, Error Message Code for more information. Contact the dealer if “bad code” appears.

Appendix 1: Error Message Description

Error Code	Message Description
Err0	Cannot save invalid card
Err1	Re-swipe of card within a limited time prohibited
Err2	Card number contains non-numeric character under compression mode.
Err3	Cannot overwrite, memory full
Err4	Memory buffer 100% full
Bad0	Flash configuration area damage
Bad1	Flash valid card area damage
Bad2	Flash swiped card area damage
Bad3	SDRAM damage
Bad4	Bad sector record area damage
Bad5	Flash erase fail(EF)
Bad6	Flash fail
Bad7	Flash fail

HUNDURE

Innovative Thinking, Better Solutions

ONE YEAR LIMITED WARRANTY

HUNDURE warrants this product against defect in material or workmanship for 1 year from the date of purchase. If such a defect is discovered within this warranty period, contact your direct vendor for repair or replacement of your unit.

When returning the product, you must ship the product in its original packaging or packaging that gives an equal degree of protection. This warranty becomes invalid if the factory-supplied serial number has been removed or altered on the product.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence or modification of any part of the product. This warranty does not cover damage due to improper operation or maintenance, connection to improper equipment, or attempted repair by anyone other than **HUNDURE**.

In no event shall **HUNDURE's** liability exceed the price paid for the product from direct, indirect, special, incidental, or consequential, damages resulting from the use of the product, its accompanying software, or it's documentation. **HUNDURE** makes no warranty or representation expressed, implied, or statutory, with respect to its products, contents of use of this documentation and all accompanying software, and specially disclaims its quality, performance, merchantability or fitness for any particular purpose. **HUNDURE** reserves the right to revise or update its product, software or documentation without obligation to notify any individual or entity.

TECHNICAL SUPPORT

For technical questions regarding the products, kindly contact your dealer.